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veterinarians; (7) sanitarians; (8) hospital administration; (9) laboratory specialists (being established); (10) dental surgeons (being established).

Consideration is being given to plans for the establishment of three additional courses, one in general military surgery, one for genito-urinary surgery, and one for military surgery of the brain, head and face.

Various special groups now in active service have been trained since the opening of the schools. These include officers and men to operate ambulance companies, field hospitals, evacuation hospitals, base hospitals, hospital trains, etc.

#### SCIENTIFIC NOTES AND NEWS

PROFESSOR FRIDTJOF NANSEN, of the University of Kristiania, Norway, now in Washington as Minister Plenipotentiary of Norway on special mission to the United States of America, has been elected an honorary member of the Washington Academy of Sciences. Dr. Nansen on January 31 gave an address before the academy on "Changes in oceanic and atmospheric temperatures and their relation to changes in the sun's activity."

FRANK AUSTIN GOOCH, Ph.D., professor of chemistry and director of the Kent Chemical Laboratory of Yale University, will retire at the end of the present year. Professor Gooch will be succeeded by Professor Bertram Borden Boltwood, since 1910 professor of radio-chemistry.

At the meeting of the Ecological Society of America in Pittsburgh, officers for 1918 were elected as follows: *President*, Dr. Henry C. Cowles, University of Chicago; *Vice-president*, Dr. Robert E. Coker, Bureau of Fisheries, Washington, D. C.; *Secretary-treasurer*, Dr. Forrest Shreve, Desert Laboratory, Tucson, Ariz.

DR. E. M. FREEMAN, dean of the college of agriculture of the University of Minnesota, was elected president of the American Phytopathological Association at the Pittsburgh meeting.

THE officers of the Washington Academy of Sciences for 1918 are as follows: *President*, Lyman J. Briggs, of the Bureau of Plant Industry; *Corresponding secretary*, Robert B. Sosman, of the Geophysical Laboratory; *Recording secretary*, W. R. Maxon, of the National Museum; *Treasurer*, William Bowie, of the Coast and Geodetic Survey; *Non-resident Vice-presidents*, T. A. Jaggar, Jr., of Hawaii, and B. L. Robinson, of Cambridge; *Members of Board of Managers*, T. H. Kearney and A. C. Spencer; *Vice-presidents* representing the affiliated societies: G. K. Burgess, Philosophical Society; J. R. Swanton, Anthropological Society; J. N. Rose, Biological Society; T. H. Kearney, Botanical Society; F. B. Power, Chemical Society; W. D. Hunter, Entomological Society; O. H. Tittmann, Geographic Society; W. C. Mendenhall, Geological Society; P. S. Roy, Medical Society; A. C. Clark, Historical Society; A. Hrdlicka, Archeological Institute; R. Zon, Society of Foresters; E. F. Wendt, Society of Engineers; P. G. Agnew, Institute of Electrical Engineers.

DR. CHARLES V. NORRIS, Chief of the Pathological Laboratories of Bellevue Hospital, has been appointed by Mayor Hylan to be chief medical examiner for New York City.

DR. L. C. GLENN, of Vanderbilt University, has been made acting state geologist on the Tennessee Geological Survey until a successor to the late Dr. A. H. Purdue can be secured. Dr. J. I. D. Hinds, of Lebanon, has been appointed chemist of the Tennessee survey. A short time before the death of Dr. Purdue, he asked Dr. Hinds to take this position as successor of Dr. Paul C. Bowers, who had been called to Washington for government service, and he has been in charge of the state work since December 10.

MAJOR GRAYSON M. P. MURPHY, of New York, has resigned as head of the American Red Cross Commission to Europe. It is reported that he will return to service in the U. S. Army. Major James W. Perkins of New York, who has been serving with the

American Red Cross Commission in Europe since last June, will immediately take up the direction of the commission's work.

DR. H. L. RUSSELL, dean of the College of Agriculture of the University of Wisconsin, has been granted leave of absence by the university, at request of Mr. Herbert Hoover, U. S. Food Administrator. Dr. Russell will organize the Section of Agricultural Relations which will connect the work of the Food Administration and the U. S. Department of Agriculture along production lines and present the work of the administration to the extension agencies of the agricultural colleges.

THE Food Administration has requested and secured from the New York Agricultural Experiment Station, leave of absence for F. H. Hall, vice director and editor of that institution, in order that he may take charge of the publicity work of the Food Administration dealing with perishable foods.

THE following members of the faculties of Harvard University have been granted leave of absence: Albert Sauveur, professor of metallurgy and metallography, who is to continue his research work for the French government; Reginald A. Daly, Sturgis-Hooper professor of geology, who is to take up Y. M. C. A. work; Julian L. Coolidge, assistant professor of mathematics, who has been commissioned a major in the Ordnance Department; Lester R. Ford, instructor in actuarial mathematics, who is to enter the military service; Samuel W. Ellsworth, assistant in roentgenology, who has been commissioned captain in the Medical Reserve Corps.

CHARLES A. KOFOID, professor of zoology, University of California, has been appointed major in the Sanitary Corps of the U. S. Army.

DR. GEORGE A. SOPER, consulting sanitary engineer in New York City, has been appointed major in the Sanitary Corps of the National Army.

DR. WALTER R. PARKER has been granted leave of absence from the professorship of ophthalmology in the medical school of the

University of Michigan, to accept service as major in the Medical Reserve Corps.

ASSOCIATE PROFESSOR J. C. RILEY, of the department of mechanical engineering of the Massachusetts Institute of Technology, has been given the commission of major in the Signal Corps.

PROFESSOR STERLING TEMPLE, of the department of chemistry of the University of Minnesota, has gone to Washington where he is to engage in work as a civilian in the ordnance department.

LEAVE of absence has been granted to Professor David L. Webster, of the department of physics of the University of Michigan, to enable him to accept a first lieutenancy to do research work on aviation instruments.

LEAVE of absence has been granted to Lewis Knudson, professor of botany in the college of agriculture of Cornell University, till next September, to permit him to engage in Y. M. C. A. war work in France.

DR. WILLIAM S. THAYER, of the Johns Hopkins Medical School, has returned to the United States after four months in Russia, as a member of the mission sent by the American Red Cross.

DR. H. GIDEON WELLS, of the University of Chicago, has returned from Roumania to which country he was sent as a member of the American Red Cross Mission.

PROFESSOR E. V. MCCOLLUM, head of the department of chemistry of the school of hygiene and public health of the Johns Hopkins University, will deliver the Packard lecture before the American Pediatric and Rush societies of Philadelphia on February 12. The subject of the lecture is "Growth."

A HARVEY SOCIETY lecture will be delivered at the New York Academy of Medicine on February 9 by Professor John Gordon Wilson, of Chicago. The subject is "The effect of high explosives on the ear."

DR. FRANK R. VAN HORN, professor of geology and mineralogy at the Case School of Applied Science, in Cleveland, lectured on January 22, on "Some geological features of

Alaska and the Yukon" before the faculty and students of Purdue University.

At the annual meeting of the Royal Microscopical Society Mr. E. Heron-Allen delivered his presidential address on the society during the great war and after.

A COURSE of public lectures on some biological problems of to-day is being given at University College, London, during January and February as follows: On the problem of food, by Professor W. M. Bayliss, F.R.S., on January 21; on war bread and its constituents, by Professor F. G. Hopkins, F.R.S., on January 28; on accessory food factors (vitamines) in war diets, by Miss E. Margaret Hume, of the Lister Institute, on February 4; and on alcoholic and other beverages, by Professor Cushny, on February 11.

THE lecture arrangements of the Royal College of Surgeons of England for February are as follows: February 6, on the surgical treatment of neuralgia, by Mr. Jonathan Hutchinson; February 8, on the treatment of war injuries of the jaw and face, by Mr. Percival P. Cole; February 11, on the diagnosis and treatment of syphilis of the central nervous system, by Dr. Hildred Carlill; February 13 and 15, on the *Quaderni d'Anatomia* by Leonardo da Vinci, by Professor William Wright; February 18, on the structure of the English skull, by Mr. F. G. Parsons; February 20 and 22, on projectile fracture of limb bones, by Mr. E. K. Martin, and February 25, on the pathological aspect of certain war injuries of the eye, by Colonel W. T. Lister, C.M.G.

ON February 28, 1918, The American Museum of Natural History in cooperation with the delegates from the New York Academy of Sciences, Section E of the American Association for the Advancement of Science and the New York Mineralogical Club, will hold a memorial meeting at The American Museum of Natural History in honor of Abbé René Justus Hauy, 1743-1822, the great French crystallographer. Papers are expected from Edgar T. Wherry, Edward H. Kraus, George F. Kunz and others, and one written for the celebration by the late L. P. Gratacap will be

read. Portraits of Abbé Hauy and the Hauy Frères, as well as mineralogical books of the eighteenth and nineteenth centuries will be shown. Dr. George F. Kunz, 405 Fifth Avenue, New York City, is chairman, and Dr. Herbert P. Whitlock, the New York State Museum, Albany, N. Y., is secretary of the committee of arrangements.

THE following resolution on the death of Dr. Theodore Janeway, has been adopted by the General Medical Board of the Council of National Defense:

The general medical board of the advisory commission of the Council of National Defense desires to place on record its profound sense of loss in the death of one of its most active and useful members, Dr. Theodore Janeway, professor of medicine in the Johns Hopkins University, of Baltimore. In this loss it shares with the entire medical profession, from which has been taken one of its chief ornaments. Dr. Janeway has rendered conspicuous service to the country by his devoted and successful efforts in the Surgeon General's office in aiding in the selection of the medical personnel of the Army hospitals. He has died as truly in the service of his country as if on the field of battle.

ON Tuesday evening, January 29, a seminary in Stimson Hall, Cornell University, was devoted to an appreciation of Dr. F. P. Mall, for his work in advancing anatomical science, and for the training and encouragement he gave to young men and women who are in the medical and teaching professions.

ROLLIN A. HARRIS, since 1890 mathematician to the U. S. Coast and Geodetic Survey, died suddenly on January 17, aged fifty-four years.

PROFESSOR CHARLOTTE FITCH ROBERTS, Ph.D., since 1894 head of the department of chemistry at Wellesley College, died in her fifty-eighth year, after a very brief illness, on December 5, 1917. A correspondent writes: "Through earnest and effective teaching she has, through her contact with a very large number of pupils, rendered a real service to chemistry. The loss of her genial companionship is keenly felt by a large circle of friends."

DR. W. L. PURVES, a distinguished English aural surgeon, has died at the age of seventy-five years.

PLANS have been perfected and the contracts let for converting the Billings estate on Washington Heights, New York City, into a war hospital. This property, comprising fifty-seven acres of land, was purchased about a year ago by John D. Rockefeller, Jr., with the idea of eventually giving it to the city for a park. The plans for the war hospital call for the expenditure of \$500,000 for remodeling the buildings already on the property and the erection of additional buildings necessary to the completion of a hospital system.

THE new museum of Santa Fe, New Mexico, according to the *American Museum Journal*, has been dedicated with ceremonies extending from November 24 to 28. The building is patterned after the old Mission Church on the Rock of Acoma, in a style of architecture said to be one hundred and fifty years older than the California missions. A feature of the dedication was an exhibition of paintings by well-known members of the Santa Fé and Taos artist groups, including Robert Henri, E. J. Couse, J. H. Sharp, Walter Ufer and others, on subjects inspired by Indian, Spanish and frontier lore, and consisted of addresses, concerts, Indian dances and excursions to Indian pueblos and ancient cliff dwellings. The American Museum was represented by Dr. Clark Wissler, curator of the department of anthropology, who gave an address on "The Opportunities of the New Museum," and by Mr. N. C. Nelson, who spoke on "Recent Archeological Discoveries in the Southwest."

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#### UNIVERSITY AND EDUCATIONAL NEWS

FIVE members of the present University of North Carolina faculty have been appointed by the trustees Kenan professors, under the provision in the bequest of Mrs. Robert W. Bingham (Mary Lily Kenan) made public last August. They were chosen by vote of the faculty because of distinguished service rendered in the field of scholarship and university affairs. They are Professor Francis P. Venable, of the department of chemistry; Professor H. V. P. Wilson, of the department of

zoology; Professor Edwin Greenlaw, of the English department; Professor William Cain, of the mathematics department, and Professor W. deB. MacNider, of the school of medicine. The Bingham bequest was made for the purpose of strengthening the faculty of the university, an annual sum of \$75,000 being provided for the purpose of augmenting aid received from the state.

COLUMBIA UNIVERSITY plans a large diagnostic clinic for the people who do not wish to accept charity and who are unable to pay for the services of a number of experts whose special advice or examinations may be needed in order to make a diagnosis. The financial arrangement provides that every clinical worker will be paid for his work and every patient charged a fee commensurate with his income.

THE University of Maryland, by a recent ruling of the faculty, beginning the next October term, will accept women students in the medical department. This ruling admits women to every department of the university, as they have been accepted in the dental, pharmacy and law departments for some time.

As Padua has recently been the objective of Austrian air raiders, the rectorate and academic council of the university have been by official decree transferred temporarily to Pisa. The same decree authorized the minister of education to allow professors of Padua to lecture in other universities and superior institutions.

AT the Massachusetts Institute of Technology William F. Jones has been appointed instructor in geology, Royal E. Grant, instructor in physics, C. H. G. Gray, assistant in electrical engineering and Dr. F. H. Thorp, lecturer in industrial chemistry.

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#### DISCUSSION AND CORRESPONDENCE CYCADEOID WOOD STRUCTURE

IN a recent communication in the *Annals of Botany* describing certain Cycadeoid rootlets Dr. Marie C. Stopes remarked the presence of scalariform structures. These are in agreement, of course, with the main body of secondary wood, which in the Cycadeoids is uni-